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13/11

The INDUSTRIOUS HEN

April, 1917

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"Lays all over
the South"

THE Industrious Hen

Absorbing Poultry Ideas, Louisville, Ky.; Practical Poultry, Birmingham, Ala.; The Poultry Times, Norfolk, Va.; Southern Poultry Magazine, Nashville, Tenn.; The Poultry News, Bustleton, Pa.; Tennessee Poultry Journal, Lebanon, Tenn.; The National Poultry Breeder, Owensboro, Ky.; Everybody's Poultry Journal, Nashville, Tenn.; The Leghorn Journal, Appomattox, Va.

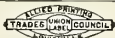
Published by

The Blair-Young Publishing Company
(Incorporated)

901-2 The Republic Building,
Louisville, Kentucky.



THE PUBLISHER OF THIS
—MAGAZINE IS A—
LIFE MEMBER OF THE
American Poultry Association



Entered as second-class matter at
the Postoffice at Louisville, Ky., under
Act of March 8, 1879.

Published Monthly; Fifty Cents a Year

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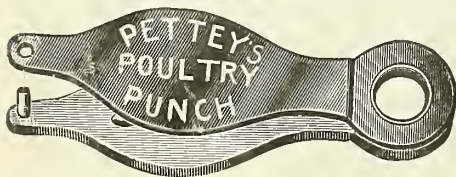
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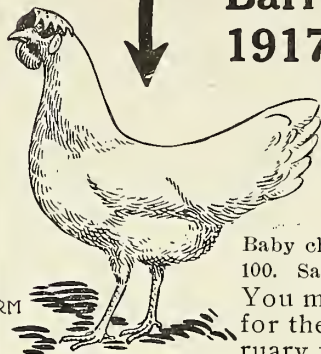
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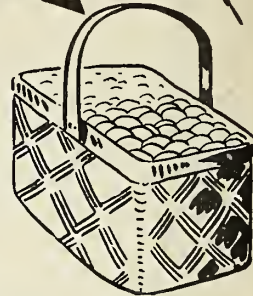
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Best trapnested record laying White Leghorn hens in the South. Correspondence solicited. Record hen 335 eggs in 15½ months, and still laying. A. & M. College, Poultry Department, Agricultural College, Mississippi.

Single Comb White Leghorn eggs from high record egg-show stock. Also White Wyandotte eggs. Prices reasonable. F. P. Barron, Angie, La. 3-2t

The East and West have their 300-egg hens. But what about the South? Our 265-egg hen has reached 296 eggs continuous laying January 22. She is still on the job and will pass the 300 mark in a few days. She finished her year December 5. We have eggs for hatching from this flock: 202, 203, 206, 225, 232, 243, 246, 265. Many others near 200. These are White Leghorns. Rhode Island Reds: 197, 203, 206, 220, 230. Lots of them just under the 200. Write for prices. Poultry Department, A. & M. College, Mississippi. 2-4t

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White Orpingtons of the best quality for all purposes. Eggs from show birds \$3.00 per 15. Show Bird Farm, Register, Ga. 3-5t

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White Orpington eggs \$3.00 per fifteen. Nine pens mated. First, second, third hen, first, second, third pullet, first, second cockerel, Atlanta, October, 1916. Fine breeders for sale. W. A. Andrews, Opelika, Ala. 2-5t

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Jardine's Barred Rocks, Ringlets, will produce winners in 1917. A \$50.00 male direct from Thompson heads pen No. 1. Cockerel mating eggs \$2.75 to \$5.00 per 15. Chicks \$6.00 to \$10.00 for 25. Catalogue ready. D. W. Jardine, Staunton, Va. 2-5t

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Barred Rocks; have the laying habit. Baby chix \$15.00 per 100. Get your orders in early. Oakland Stock and Poultry Farm, Sumterville, Ala. 3-5t

Columbian Rock eggs for hatching. Birds direct from Clemens' farm, originator of breed. Prices reasonable and satisfaction guaranteed. Start right. J. M. Dupps, Sunman, Ind. 3-2t

My White Plymouth Rocks hold two world records made in laying contests. Send for pamphlet. C. E. Reed, Hollidaysburg, Penn. 3-3t

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Barred Rock, Ringlets. Won four firsts on five entries. Fifteen eggs \$3.00; 20, \$5.00. Mrs. Mary E. Denton, Robards, Ky. 4-2t

Eggs for hatching. Barred Rocks, \$1.50 and \$2.00 setting. Mammoth Bronze turkeys, \$4.00 dozen. Mrs. Garnett Poindexter, Fredericks Hall, Va. 4-1t

Barred Rock, Ringlets. Won four firsts on five entries. Fifteen eggs \$3.00; 30, \$5.00. Mrs. Mary E. Denton, Robards, Ky. 4-2t

Barred Rocks, Thompson and Holter- man strain. Perfect barring, bred to lay. Eggs \$1.50 per 15; \$2.50 per 30; \$4.00 per 50. Postpaid by parcel post or express. Good hatch guaranteed. Mrs. L. A. Williams, Scottsville, Ky. 4-1t

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Ringlet Barred Rock eggs \$1.00 for 15; \$4.50 per 100. Free range, healthy stock. Mrs. K. R. Tardy, Murat, Va. 4-1t

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F. B. L. strain of White Rocks. Win- nings, Owensboro and Springfield, Ill., 1916, 1st cockerel, 1st hen, 3d cock, 1st, 3d and 4th pen. Three grand champions—cockerel, hen and pen. Stock and eggs for sale, also Barred Rocks. Write your wants. Mrs. J. W. Westacker, R. No. 2, Stanley, Ky. 2-5t

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Buschmann-Pierce Rhode Island Reds, Rose and Single Comb. Free mating list. Best quality, lowest prices, satisfaction guaranteed. Hope Poultry Breeders Association, Hope, Ind., R. F. D. No. 8. 3-3t

Single Comb Rhode Island Reds. The rich dark velvet red color that has the lustre to win in strong competition. Limited number of eggs from two of the best pens I ever mated. Satisfaction guaranteed. C. H. Briley, Antioch, Tenn. 2-5t

Prize winning Rose Comb Rhode Island Reds. Eggs, 15, \$1.50; 30, \$2.50. Barred Rocks, 15, \$1.25; 30, \$2.00. H. S. Crabill, Toms Brook, Va. 4-1t

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Single Comb Reds. Large size, dark cherry red. Excellent layers. Eggs \$10 per fifteen. J. E. Brown, Bon Secour, Ala. 4-1t

Single Comb Rhode Island Red eggs for sale from a well bred strain. One dollar per 15. E. F. Hixson, Box No. 1, Hixson, Tenn. 4-4t

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Single Comb Rhode Island Reds. Eggs for hatching \$3.00 per 15, from the yard that won more first premiums for the number of birds shown at the great Tri-State Fair, 1916. J. W. Haynie, Milan, Tenn. 2-3t

Single Comb Reds. Eggs for hatching. Prices reasonable. Satisfaction guaranteed. Correspondence solicited. J. G. Lanham, Box No. 31, Fairmont, W. Va. 3-5t

S. C. Reds. America's best blood. Tompkins and Crowther strains. Four pens mated for eggs at \$1.00 to \$3.00 per 15. Mating list free. Explains all. Harvey Baker, Johnstown, Ohio. 2-5t

Just back from Norfolk, Va., Show. Won 3d and 5th cockerel on two entries; 32 cockerels in class. If you want strong show quality S. C. Reds—eggs \$5.00, \$4.00, \$2.00 per 15. Incubator eggs 10 cents each. Honest dealing. Order from this ad. Tom D. Ayers, Morristown, Tenn., R. F. D. No. 3. 2-5t

(Continued on page 184.)

THE INDUSTRIOUS HEN

VOL. XIII

LOUISVILLE, KY., APRIL, 1917

No. 11

HIGH SCORING HENS BEST WINTER LAYERS

Records So Prove in American Egg Laying Contest—Cause and Prevention of Crooked Breast Bones—Due to Feed and Not Early Roosting—Contest Report for February

By T. E. QUISENBERRY, Leavenworth, Kan.



HERE are two things we wish to emphasize this month, the cause and prevention of crooked breast-bones, and the remarkable results shown by a comparison of the scores and egg records of our highest record pullets. The ten highest pullets in the American Egg Laying Contest for the four winter months, November, December, January and February, have averaged twenty eggs per bird per month. These same highest layers are among the highest scoring pullets of their variety, and all but one score from 91 to 94 points, each bird being scored by Judge E. C. Branch, of Missouri. These birds are among the very highest scoring birds of their varieties and yet they led all others in the contest. Their standing, band numbers, variety, State, record and score are as follows:

No.	Variety.	State.	Score.	Eggs.
763.	White Wyandotte	Arkansas	92	87
461.	Black Rhineland	California	92 3/4	86
944.	Buff Wyandotte	Missouri	92	83
871.	White Plymouth Rock	Tennessee	93 3/4	80
743.	White Wyandotte	Illinois	94	80
1144.	Barred Plymouth Rock	Missouri	89	80
1092.	R. C. R. I. White	New Jersey	91	78
854.	Barred Plymouth Rock	Kansas	91 1/4	76
745.	White Wyandotte	Illinois	93 1/4	76
945.	Buff Wyandotte	Missouri	91 1/4	75

These pullets have made an average profit above the cost of feed of \$2.75 per pullet for four months. They are the highest scoring pullets and they have led the 600 hens in the contest in egg production. In view of this record, is this not sufficient proof that beauty and egg production can be combined in the same bird to a large degree if we breed for that purpose? Is it not sufficient evidence that purebred poultry pays best?

Cause of Crooked Breast-Bones.

As the hatching season is in full blast just at this time and all poultrymen are busy rearing their young stock, it might be of benefit if we suggested something that would help prevent crooked breast-bones in the coming generation of chicks.

Poultrymen usually attribute crooked breast-bones to the fact that such chickens began to roost on poles too early in life. The weight of the body resting on the poles, they imagined, caused the breast-bone to be deformed. We are inclined to the belief that this, in a large majority of cases, is due wholly to the lack of sufficient ash and mineral matter in the food. These elements were lacking to such a degree that the bones did not grow and develop as they should, but became deformed. We have seen chickens roost continually upon a bed of straw until they were practically mature and yet they had crooked breast-bones. And again we have seen chicks begin to roost on poles very early in life, yet it was very seldom that you found a chick with a deformed breast-bone. After experimenting and after considerable observation we believe that the fault is in the fact that there is insufficient ash, mineral matter and bone building material in the food given such chicks.

In feeding hens, if lime is lacking in the food, the hens will eat their own eggs to get the lime contained in the shells and they will keep drawing on the lime in their bones until their bones are soft. The same principal applies in the case of crooked breast-bones.

Perhaps no part of the mash is so often neglected as the mineral element of chick foods. All grains contain more or less ash and mineral matter, but the average food is deficient in meeting the needs of the chick, which is grow-



Prize winning S. C. Buff Orpington female. Bred and owned by W. L. Doolittle, Fairmont, W. Va.

ing rapidly and requiring a great quantity of building material for bones. Slow growth and uneven development usually result. Bone meal or finely cracked bone is very essential. This should be mixed in the mash in addition to feeding chick grit and charcoal. Beef scraps, fish scraps, granulated milk, fresh meat, skim milk and buttermilk are all good, but bone meal should be supplied in addition. We use about five pounds of fine bone meal to each 100 pounds of dry mash.

The Contest.

In the contest the ten highest pens of five pullets each for four months are as follows:

Pen.	Eggs.
74. White Wyandottes	Illinois 333
94. Buff Wyandottes	Missouri 313

16. S. C. White Leghorns	Kansas	306
114. Barred Plymouth Rocks	Missouri	293
95. White Wyandottes	Illinois	289
76. White Wyandottes	Arkansas	283
105. S. C. Rhode Island Reds	Missouri	272
9. S. C. White Leghorns	Pennsylvania	264
96. S. C. Buff Leghorns	Kansas	252
72. S. C. R. I. Whites	Michigan	251
17. S. C. White Leghorns	Missouri	251

Barred Plymouth Rocks won the prize for February and was the only pen to lay over 100 eggs in the twenty-eight days. This same strain has won several times in the Missouri contest which shows that there is something in breeding for egg production. The ten highest pens for February are as follows:

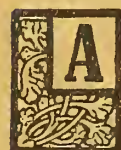
Pen.	Eggs.
114. Barred Plymouth Rocks	Missouri 113
105. S. C. Rhode Island Reds	Missouri 97
56. R. C. Rhode Island Reds	Missouri 93
76. White Wyandottes	Arkansas 92
49. Black Langshans	Kansas 91
74. White Wyandottes	Illinois 89
85. Barred Rocks	Kansas 89
16. S. C. White Leghorns	Kansas 88
115. Barred Plymouth Rocks	Illinois 87
97. S. C. Buff Orpingtons	Vermont 86
99. White Orpingtons	Kansas 86

In the individual contest the best records to date have been made by the following pullets:

No.	Eggs.
338. Buff Leghorn	Michigan 76
198. Rose Comb Red	Ohio 66
347. Buff Leghorn	Michigan 66
918. Barred Plymouth Rock	South Dakota 61

FEBRUARY REPORT OF KENTUCKY CONTEST.

Monthly Report of the Kentucky National Egg Laying Contest Held by the Kentucky Agricultural Experiment Station, Lexington, Ky.



AMONG the lessons taught by an egg laying contest is the season of the year that the different breeds and varieties of fowls should be hatched in order to produce the most winter eggs. It would appear from the birds entered in the egg laying contest being conducted by the Kentucky Experiment Station that three distinct classes are to be found. First, there is a rather large class that are hatched too early, usually in January, February and March. These birds mature quite rapidly and start laying in the early fall. After a few weeks, however, they generally pass through what is known as "fall moult" and oftentimes do not start laying again until spring. Another small class is composed of those birds that are hatched in late May and June. These fowls are very slow to develop and fail to produce many eggs until warm weather opens in the spring. The third, and largest class, is composed of those birds that are hatched the proper season of the year. This season varies to a marked extent with the breed, and while there is no arbitrary date that can be laid down, experience teaches us that satisfactory results are to be obtained by hatching the heavier varieties during early March; the medium breeds, such as the Rhode Island Red and the Plymouth Rock, from the 10th of March to the first of April, while Leghorns and other lighter varieties give the best results when hatched between the 10th of April and the 5th of May. Birds hatched during these periods mature in a normal manner and usually start laying during late October and November. Once these birds have started laying there is little danger of their moulting, and a good egg yield may be expected, provided of course, that they are supplied the proper feed and housing conditions during the winter season.

Egg Records in the Contest.

For the month just closed a total of 2,195 eggs were produced, which is an average of 14.62 per hen, as compared to 11.8 eggs for the previous month.

Pen 29, S. C. White Leghorns, won the ribbon for February by laying 110 eggs. A pen of Buff Orpingtons was second with 103 eggs, followed by a pen of White Wyandottes with 101 eggs.

A White Leghorn pullet from Pen 24 won individual honors for the month by producing a perfect score of 28 eggs. She also led for January with a production of 30 eggs, and thus she had laid 54 consecutive days.

Pen 21, S. C. White Leghorns from Tennessee, leads for the first four months of the contest with a record of 365 eggs; pen 29, also White Leghorns, is second with 358, while a pen of White Wyandottes is third with 321.

The highest producing pullet to date is a White Leg-

horn from Pen 24, that has produced 102 eggs. Another White Leghorn from Pen 21 is second with 99 eggs.

Leading Pens for First Four Months of Contest.

Pen.	STATE.	Total Eggs.	Firsts.	Seconds.	Weight of Eggs.	Value.	Cost of Feed.	Profit.
21	Tennessee	365	344	21	47.23	\$14.81	\$3.73	\$11.08
29	Kentucky	358	318	40	45.71	14.45	2.89	11.56
15	Kentucky	321	247	74	40.46	13.19	3.95	9.24
24	Kentucky	307	167	140	37.37	12.29	3.19	9.10
28	Kentucky	301	277	24	39.44	12.09	3.17	8.92

Leading Hens for First Four Months of Contest.

Pen.	STATE.	Band No.	Total Eggs.	Firsts.	Seconds.	Weight of Eggs.
24	Kentucky	707	102	18	84	11.57
21	Tennessee	721	99	97	2	13.42
21	Tennessee	724	88	77	11	11.35
29	Kentucky	676	86	76	10	10.95
15	Kentucky	761	86	66	10	10.41

High Producing Pens With Records for February.

Pen.	STATE.	Total Eggs.	Firsts.	Seconds.	Weight of Eggs.	Value.	Cost of Feed.	Profit.
29	Kentucky	110	106	4	14.27	\$4.61	\$0.80	\$3.81
15	Kentucky	103	90	13	13.44	4.29	1.11	3.18
14	Kentucky	101	92	9	12.49	4.21	.95	3.26
4	Kentucky	98	98	0	13.28	4.11	1.07	3.04
25	Illinois	98	86	12	12.45	4.08	.82	3.26

High Producing Hens for February.

Pen.	STATE.	Band No.	Total Eggs.	Firsts.	Seconds.	Weight of Eggs.
24	Kentucky	707	28	6	22	3.20
14	Kentucky	764	26	23	3	3.29
29	Kentucky	676	25	25	0	3.30
21	Tennessee	725	25	25	0	3.27
7	Kentucky	807	24	0	24	3.17
14	Kentucky	763	24	4	20	2.89

MORE PUREBRED POULTRY IN KENTUCKY.

A Great Poultry Work has been Inaugurated by the Extension Division of the College of Agriculture.—Thousands of Farmers Will Start Breeding Purebred Poultry This Year.—We Hope the Day is not Far Off When We can Say Farewell to the Old Mongrel.

By J. Gaylord Blair.



THE poultry industry in Kentucky has taken on new life and we think the day is not far off when every farmer in this State will have a flock of purebred birds instead of the old mongrel flock we find today on the majority of farms throughout the State. The work which has been inaugurated by the Extension Division of the College of Agriculture at Lexington will be the means of getting thousands of purebred birds in a number of counties in different sections of the State this year. Within the next few years we believe every county will adopt a standard breed of chickens.

By getting the farmers and farmers' wives interested in one standard variety of poultry it will mean more poultry, more eggs and more profit for them. Kentucky now is producing something like \$15,000,000 worth of poultry and eggs each year. When we can show the farmers that purebred birds from high laying stock will produce five times the profit his common mongrel stock produces, he



FIRST AND SECOND COCK S. C. WHITE LEGHORNS
GRAND RAPIDS POULTRY SHOW JANUARY 1917.
bred and owned by GEO. B. FERRIS GRAND RAPIDS, MICH.

will realize that he has been losing good money year after year. It is remarkable the progress that has been made in so short a time by the county agricultural agents in a number of counties in Kentucky in getting the farmers to raise purebred birds this season. I believe that just as soon as the farmers see what it will mean for them to keep only purebred birds and how it will add to their yearly profits, it will not only spread all over Kentucky but all over the South. In a few years every farmer will be the proud owner of a fine flock of purebred birds. We want to see every farmer who has a chance to take advantage of this opportunity to do so, and start this year, if possible. Then by next year they will have a nice flock of birds, all uniform in color and type.

The following counties have taken up the work and are specializing on one breed. From two to four hundred settings of eggs will be distributed in each county. This list includes the county, the county agent, where he is stationed and the breed the respective county is specializing on:

Christian County—Jas. A. McKinzee, agent, Hopkinsville, White Wyandottes.
Crittenden County—J. W. Bird, agent, Marion, White Wyandottes.
Fleming County—W. H. Clayton, agent, Flemingsburg, Rhode Island Reds.
Hopkins County—G. S. Hollingsworth, agent, Madisonville, White Wyandottes.
Kenton County—Wayland Rhoads, agent, Independence, Barred Rocks.
Knox County—W. M. Tye, agent, Barbourville, White Rocks.
Laurel County—Sam Morgan, agent, London, Rhode Island Reds.
Lyon County—Chas. P. Varney, agent, Eddyville, White Wyandottes.
Madison County—R. F. Spruce, agent, Berea, Rhode Island Reds.
McCracken County—W. J. Piggott, agent, Paducah, White Rocks.
McCreary County—M. D. Aubury, agent, Whitley City, Barred Rocks.
Muhlenberg County—Jas. H. Moore, agent, Greenville, White Wyandottes.
Nelson County—Chas. L. Taylor, Bardstown, Single Comb White Leghorns.
Oldham County—S. J. Lowry, agent, LaGrange, White Rocks.
Pendleton County—G. A. Smith, agent, Falmouth, Single Comb White Leghorns.
Pulaski County—W. C. Wilson, agent, Somerset, Barred Plymouth Rocks.
Todd County—R. B. Bently, agent, Elkton, White Wyandottes.

Treg County—R. L. Varney, agent, Cadiz, White Wyandottes.

Whelley County, E. H. Faulkner, agent, Williamsburg, Rhode Island Reds.

Several weeks ago we wrote to several county agents in this State, asking them to give us some information in regard to their working plans, also to let us know what progress was being made in the work. We received most encouraging reports from them, telling us of the good work which is being done in about twenty counties in Kentucky.

One bank in each county is furnishing the money to buy the eggs and this money is to be paid back this fall with one pullet for each setting of eggs received. Farmers can secure as many settings as they want. In order to get these eggs, one must be a member of the Farmers Club. The plan under which this work is being carried on is through the Farmers Club in each county. One county agent wrote that in all probability 20,000 eggs would be placed in his county and these particular eggs are White Wyandottes. You can readily see what these 20,000 White Wyandotte eggs will do for this county within the next few years. At the present time, these eggs are being purchased from different sources, but next year these same farmers who get eggs this year through this plan will be in a position to furnish their neighbors with eggs. This is a splendid work and we hope that it will be carried on not only throughout this State but the whole South. The poultry industry is only in its infancy now as compared to what it will be in five years.

FEBRUARY REPORT OF MISSOURI NATIONAL EGG LAYING CONTEST.

Thirty-one Cents Profit per Hen in February.—One Man's Profits.—Hens Average 16 Eggs Each in February.—Buff Rocks Win Cup for the Month.—White Wyandottes Lead for Four Months.

WE OFTEN hear the question asked, "What can be made from poultry?" In answer to this question we give the results of the contest for February from a commercial viewpoint. The results of five previous contests indicate that the average production for February is the average per month for the year. While the price of eggs was above the average, price of feed was correspondingly high.

As one man does all the work in the contest, it furnishes a basis for finding the relation between cost, labor, profits, etc. In doing the work of feeding, watering, trapnesting, etc., the man passes through 756 gates and doors each day, as well as keeping fifty-eight mash hoppers in repair, cleaning fifty-eight droppings boards, and keeping the litter in order in fifty-eight houses. Thus it will be seen that the man has a maximum amount of labor and as he has charge of fifty-eight pens of six hens each, five competing and one substitute, 348 hens, he has a minimum number of hens, and as February is the shortest month in the year, we believe the profits to be below the average.

The feed for February cost \$71.34, or 20.5 cents per hen, and sixteen egg cases at 25 cents each cost \$4.00, making a total cost of \$75.34.

Five thousand five hundred and twenty-eight eggs were produced, which sold at an average of 3½ cents each, or \$184.26, leaving \$108.92 for labor. This is an average of 31 cents per hen, which was more than one cent profit per hen per day.

One man can care for three or four times as many hens where they are kept in larger flocks, which makes the profits greater.

We believe proper feed and care is partly responsible for large egg yields. We have no secret formula for feeding, but have published our feed ration through these columns and will send circular entitled "Balancing the Ration for Egg Production," free upon request.

The Contest.

The 290 competing pullets produced 4,732 eggs during February, or an average of 16.3 eggs per hen, which is the best average ever produced at this place during February; 12.8 eggs was the average for the five previous contests.

A pen of Buff Rocks from Kansas won the cup for February by laying 106 eggs.

The pens occupying the five highest places for February are as follows:

Pen.	Eggs.
5. Buff Rocks Kansas	106
59. S. C. White Leghorns Pennsylvania	103
49. White Rocks Missouri	100
24. S. C. Rhode Island Reds Missouri	98
4. Partridge Rocks Ohio	97
37. White Wyandottes Missouri	97
39. Columbian Wyandottes New York	97

A White Wyandotte hen holds the highest record to date by laying 103 eggs in the four months. Hens occupying the five highest places to date follow:

Hen.	Pen.	Eggs.
4.	35. White Wyandotte .. Missouri	103
3.	19. R. C. R. I. White ... New Jersey	94
1.	28. S. C. Red, Iowa Iowa	93
2.	29. Buff Orpington Missouri	92
3.	35. White Wyandotte .. Missouri	91
3.	11. Barred Rock Missouri	91

A pen of White Wyandottes from Missouri is in the lead for all time by laying 393 eggs in the four months.

The ten highest pens to date are as follows:

Pen.	Eggs.
35. White Wyandottes Missouri	393
19. R. C. Rhode Island Whites New Jersey	386
31. White Wyandottes New York	351
27. Buff Orpingtons Missouri	343
23. White Orpingtons Missouri	338
52. S. C. White Leghorns Missouri	330
20. R. C. Reds Missouri	327
29. S. C. Buff Orpingtons Missouri	320
22. R. C. Reds Missouri	318
28. S. C. Reds Iowa	309

I hereby certify that the above is a correct report of the National Egg Laying Contest for the month of February, 1917, as shown by the books of this institution.

C. T. PATTERSON, Director,
Missouri State Poultry Experiment Station.

Mountain Grove, Mo.

HATCH YOUR CHICKS OUT EARLY FOR SIZE.

April and May are the Best Months for Hatching if You Want Size and Early Layers.—Try to Hatch All You Possibly Can During the Next Eight Weeks.



CONTRARY to general belief and practice, chicks do not grow or thrive as well during the warm months or hot summer days as they do earlier in the spring. Experienced poultrymen realize this fact. The average farmer, however, does not make an effort to hatch early so that the chicks will have the advantage of a longer and more favorable growing season. Early hatching not only insures more rapid gains in the growth of chicks but has a favorable influence on the size of the individuals of the flock. Late hatched chicks rarely, if ever, attain the size of those hatched early. Early hatching likewise influences early maturity and consequently early egg production.

Given the same food, care and attention, chicks hatched the first of March will weigh more when they are four months old than those hatched a month later, say the poultry specialists of the United States Department of Agriculture. This likewise holds true with chicks hatched the first of April as compared with those hatched May first. This is due to the fact that the rate of growth of a chick is greater during the first four weeks of its life than at any other time. Consequently, the early hatched chick, having the advantage of a more favorable growing season, makes greater gains during the first four weeks of its life than the late hatched chick. During the early spring months when the temperature is not so varied the growth of chicks is more uniform and constant than it is during the summer.

Millions of chicks die every year as a result of being



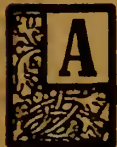
Pen of S. C. Anconas, bred and owned by Barrett's Ancona Farm, Morristown, Tenn. See advertisement in this issue.

infested with lice which, under average farm conditions, are often difficult to control. Hen-hatched chicks are not as subject to lice in the early spring as they are during the warmer months when lice are more prevalent. If for no other reason chicks should be hatched early so their growth will not be interrupted by the presence of lice.

Many farmers realize considerable money each spring from the sale of broilers, the price of which is usually governed by their size when sold and the time marketed. Thus it would seem that in order to increase the amount of money from the sale of broilers and fryers, early hatching would be employed so as to have a marketable sized fowl early in the spring when prices are highest.

PROFITABLE EGG PRODUCTION.

Value of a Well Balanced Ration for the Hen.—First Cost Shown to be no Factor.



AN EXPERIMENT made at the New York State College of Agriculture, at Cornell University, provides some interesting and very valuable information on the production of eggs, through the use of different rations of feed with and without meat scrap and crushed oyster shells. This experiment was not conducted in the form of an egg laying contest, but was worked out for the purpose of

determining the egg producing value of the use of various combinations of chicken feeds, which the following record of the test will show:

Ten Leghorn hens composed the flock of each pen, and the experiment was run for twenty weeks. Pen 61 was fed the regular Cornell grain ration of cracked corn, wheat and oats and a mash of the following proportions: corn meal, 300 pounds; wheat middlings, 300 pounds; wheat bran, 150 pounds; alfalfa meal, 50 pounds; oil meal, 50 pounds; meat scrap, 250 pounds; salt, 1 pound. This pen was also furnished oyster shell as well as grit and charcoal. During the twenty week period of the test, 313.54 pounds of food were consumed, costing \$4.51, yielding 508 eggs, valued at \$15.50, showing a profit of \$10.99 over the cost of the feed.

In this test, another pen, with the same number and breed of hens, and running the same length of time, was fed only the Cornell ration, with both meat scrap and oyster shell excluded. The consumption of food by flock of this pen was 294.26 pounds, costing \$4.80; 137 eggs were produced, valued at \$4.45, showing a profit of only 37 cents over the cost of the feed.

This experiment shows rather strikingly the value of the use of meat and oyster shell in the ration of a laying hen, as the two pens fed no meat or shell were the two poorest producing pens of the test, and the two which made the least profit over feed.



EGGS! EGGS!! EGGS!!! BUFF ORPINGTONS, S. C. R. I. REDS, BARRED ROCKS

My exhibition birds are all in these pens and you stand the same chance for a show bird that I do. Send me your order for eggs and grow your own cockerels for next year. \$3.00 and \$1.50 per 15 eggs. If you don't have a good hatch, will replace infertile eggs at half price. Satisfaction guaranteed.

S. M. HARBISON,

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Danville, Kentucky

Rid Your Poultry of Pesky Lice!!



A Sure Shot Zenoleum Lice Killer gets quick action on lice, mites and disease germs of poultry. Safe to use and *never fails*.

ZENOLEUM Lice Powder

The Powder That Penetrates to the Skin

It has such "fluffiness" that it easily penetrates through the feathers to the skin. Used and endorsed by leading poultry men.

Get a Big 25c Package! Price at any dealers 25c or by mail postpaid 35c. Does the work or money back—no talk, no argument, just money back.

Book "HOME TREATMENT FOR POULTRY DISEASES"—FREE
Zenner Disinfectant Co., 660 Lafayette Ave., Detroit, Mich.



Eggs and Baby Chicks from heavy layers.

Satisfaction guaranteed
Mating list free

N. V. FOGG

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Mt. Sterling, Ky.



S. C. BROWN LEGHORNS

I have some splendid birds to offer you in cocks, hens, cockerels and pullets at reasonable prices. I guarantee satisfaction with every sale or a refund of your money. Can furnish you pens mated for best results, either old or young. Egg orders booked for later delivery. Circular free. Address

M. S. COPELAND,

Powell Station,

R. F. D. No. 1

Tennessee

YOUNG'S IMPERIAL S. C. WHITE LEGHORNS

Black and White Orpingtons. Champion layers and prize winners. Eggs and Baby Chicks for sale. Write for free catalogue.

Young's Poultry and Dairy Farm

"The Home of Egg Producers"

STUTTGART

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A HUSKY CHICK

"Insure" my life and keep me well and strong by feeding me

Pratts

Baby Chick Food

Guaranteed to raise every livable chick. Three weeks' feeding at a cent a chick.

Sold by dealers generally.

192

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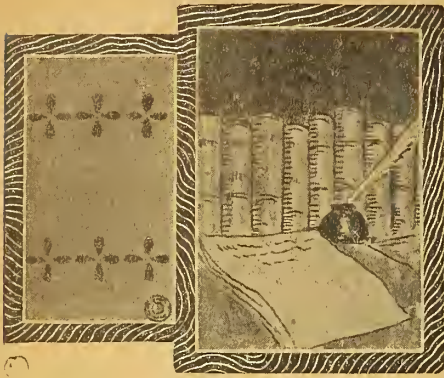
Don't Feed Green Food!

Do away with the bother by using **Succulenta Tablets**

They are better, cheaper and more relished by all fowl. Simply dissolve one tablet in one quart drinking water for fowl. A full egg basket assured.

Can of 100 large tablets by mail, \$0.50	YOUR MONEY
" " 250 " " " " 1.00	BACK IF NOT
" " 500 " " " " 1.75	SATISFIED.
" " 1000 " " " " 3.00	

Write for particulars, giving your dealer's name, to the SUCCULENTA CO., P. O. Box 405-25 Newark, N. J.



EDITORIAL CORRESPONDENCE

VOTE FOR LOUISVILLE FOR NEXT A. P. A. CONVENTION.

Hatching Strong, Healthy Chicks.

AT least eighty-five per cent of all the chicks hatched should be raised to maturity under ordinary conditions. You will find that this can be done if the chicks have strong vitality and are hatched from eggs that are laid by birds that are strong and vigorous. When the chick is hatched and it shows signs of having strong vitality you can count on raising this bird to maturity if given half a chance. But on the other hand, if the chick is hatched a weakling when brought into this world, you will have just about one chance out of a hundred of raising this chick to maturity and developing it into a strong, vigorous bird.

I know there are hundreds of poultry raisers today who are raising only twenty to fifty per cent of all the chicks hatched, and they are at a loss to know what the trouble is, and many are under the impression that it is due to their feeding methods. Possibly some cases might be due to their way of feeding, but I am of the opinion that the majority of the cases are due to the lack of vitality in the breeding stock. This is a serious question and one that every poultry raiser should be familiar with; that is, he should know that the birds in his breeding pens should be strong and vigorous and not lacking in vitality. Many times a breeder is influenced to use a bird in the breeding pen just because this particular bird won first at one of our largest shows. While this bird is a good show bird and comes up to standard qualifications, in fact outclasses possibly thirty or forty others, it is no sign that he will make a good breeding bird, because by this bird being low in vitality and not strong and vigorous, his offspring are sure to be weak and possibly be the cause of this particular fancier laying the cornerstone for his failure. It might possibly be two or three years before it is noticeable in the flock, but it will creep out and spell failure sooner or later.

Be sure to order your copy of "Practical Farming and Gardening" today. See special offer in this issue.

Is the Poultry Business Profitable?

HOW many times do we hear this question asked? Probably more times than any other question connected with the poultry industry. Of course there are many failures, but if you compare the number of failures in the poultry business with those of any other business, you will see that the percentage is no greater

than you find in any other line of business. Possibly the large number of failures in any business can be attributed to the lack of experience in some particular line, and no person should think of going into a business of any kind unless they have had some experience, which is essential to their success.

One trouble with the poultry business is the fact that too many people who go into it imagine it does not take any experience and that it is a get-rich-quick proposition. They have been led to believe this by fake advertisements, which have appeared in past years, where thousands of dollars can be made off a few hens in the back yard or on a city lot. This induced many to take up the raising of poultry. Some were successful, but the majority of them failed and are among the "knockers" today. They expected to get rich on an investment of a few dollars without any experience or knowledge of the business, whatever. I know of hundreds of successful poultry raisers who are making splendid profits from their hens on the amount invested. With experience and a love for the business anyone can make their investment pay handsome dividends.

I have one party in mind near me who has a Single Comb White Leghorn plant of 1,200 hen capacity. From January 1, 1916, to December 12, 1916, he produced and sold 5,000 baby chicks, 300 settings of (fifteen eggs each) hatching eggs, 353 breeding females, thirty-two males, 600 broilers, 290 cases of market eggs and 873 dozen eggs for home consumption. His sales on baby chicks and breeding stock could have been greatly increased but his capacity was limited.

What this man has done is not beyond the average business man or woman. From these 1,200 hens, this man produced at the lowest about \$6,000 worth of poultry and eggs in less than one year. Then we ask you if "the poultry business really pays?"

Advertising pays in the *Industrious Hen* because we have the largest paid in advance subscription list of any poultry paper in the South.

Leg Weakness.

OVERFEEDING your birds and using bad methods of feeding is really worse in my opinion than not feeding enough. You can trace some very bad troubles to improper feeding and one especially is leg weakness. This is seldom seen in old birds but in young chicks up to six months of age and in the heavier

breeds such as the Asiatics, American and English classes.

Where you try to increase the size and weight of a bird at the expense of time you are bound to get into serious trouble and leg weakness is usually the result. When this is done, the weight of the body is heavier than the legs are able to support and this is where the trouble first took its name. By feeding large quantities of fat-producing food and not sufficient bone and muscle food without any exercise or large enough range for the chicks, this will also cause you serious trouble. A great many people have leg weakness in their flocks and they are at a loss to know what the trouble is or what it is caused from. But if they would stop and study the situation carefully, they could easily discover the trouble.

Leg weakness is more common in brooder chicks than in chicks that are brooded by the hen and the only good reason we can give for this is that chicks brooded by the hen get a great deal more exercise.

In brooding chicks by artificial means you should supply a deep litter of clean chaff or straw for the little chicks to get the proper amount of exercise in and feed all grain in this litter. By keeping the little fellows busy all day long, working in a deep litter for their feed, you will have little chance of being bothered with leg weakness, and you will be laying a foundation for strong healthy chicks that will develop into valuable breeders and layers.

We will give you a \$50.00 drop-head sewing machine absolutely free. See special offer in this issue.

System.

"System" is the word. The man who will not study systematic methods has no business in business. This month preeminently demands clock-work procedure. A large proportion of failures result from a weakness at just this point. There's an amazing difference in men. Some take to systematic methods of work much more readily than others. They who are lacking in the ability to handle many small details with efficiency should give special attention to self-training. Vast improvements can be made by all of us, and with great rapidity, in the ability to handle a large variety of interests. Begin today to strengthen your efficiency in avoiding neglect to certain portions of your business, resulting in general confusion throughout the plant.—Poultry Item.



Under this heading we will give our readers each month clippings from our exchanges that we think will interest them.

Eggs for Hatching.

It is seldom necessary and never desirable to use eggs for hatching from all of the fowls on the farm. A sufficient number of the choicest fowls should be selected for use as breeders. The breeding fowls may be separated from the main flock two or three weeks before it is necessary to begin to save eggs for hatching. They should be housed in a temporary pen and yarded at one end of the regular poultry house or in portable colony houses and returned to the main flock as soon as the breeding season is over.

No matter how carefully the breeding stock has been selected, it will usually be found advisable to make a careful selection of the eggs to be incubated, basing the selection on their size, shape, color, condition of shell and uniformity. The first three of these characters are hereditary and a careful selection of eggs of good size, shape and color continued through several generations will result in greatly improving the average quality of the eggs produced by the flock.—Poultry Record.

When to Begin.

At every season of the year we see articles in the poultry journals stating that that is the particular season that is best to start raising poultry. It does not seem possible that all these seasons can be the best season, but in one way it is true. The best season is just as soon as possible after one makes up his mind to start. In the spring, if one decides to embark in the poultry business, that is the best time for him to start. He can buy eggs, and it would be foolish for him to wait until fall or the following winter to start. If he decides to start in the summertime that is the best time, as he can buy baby chicks or breeding stock at a considerable less price than if he waits until fall or winter. And so on through the seasons, the best time to start is when you are

ready. Each season has its advantages. Start as soon as possible.—Poultry Record.

Have Your Brooder Ready.

The need of being ready for brooding when the chicks come cannot be too strongly stated. The subject should be studied and re-studied from every possible point of view. Every system should be investigated, and its efficiency weighed in the balance of your very best judgment for your particular use. Be sure to have the best method possible in the best readiness possible by the time the little tender things have rolled out of the shells. They are trusting you for their lives. They did not ask to be hatched. It's up to you to care for them. You must have better sense than an old hen this month or there'll be many a little funeral from your poultry plant. Hundreds of thou-

sands of little chicks will die this month because of wrong brooding. How many do you feel able to contribute to this great mortality? Begin again to study this question.—Poultry Item.

CRAGUN'S BUFF PLYMOUTH ROCKS AND GOLDEN BUFF ORPINGTONS

Winners. Cockerels and pullets for sale. Eggs for hatching. Won 13 ribbons State Fair, 1916. JOHN A. CRAGUN, Kingman, Kansas

Waterloo Poultry Farm

Bred to lay, S. C. White Leghorns. Eggs \$1.00 per 15; 100 or more, 6c per egg. Delivered. Satisfaction guaranteed.

J. L. CUNNINGHAM, Kerrs Creek, R. F. D. 1 Virginia

FREE



Here is the feeder and fountain for which every poultryman has been looking. Just the fountain you want for your little chicks. We will give this feeder or fountain free to every one who sends us 50c for a year's subscription to THE INDUSTRIOUS HEN. If you are already a subscriber we will extend your subscription another year or get your neighbor to subscribe and we will send you the fountain free. Address Subscription Department,

THE INDUSTRIOUS HEN, 609 Republic Bldg., Louisville, Kentucky

DOOLITTLE'S ORPINGTONS—WHITE BUFF BLACK

Eggs for hatching from exceptionally fine matings at prices that will please you. We guarantee satisfaction on all orders. Get your copy of our free mating list before placing your order for eggs.

W. L. DOOLITTLE,

Stevens St.

FAIRMONT, WEST VIRGINIA



MAPLESIDE "Bred-to-Lay" Barred Plymouth Rocks

ACKNOWLEDGE NO SUPERIORS AS LAYERS

80% of all Hens on Hand Jan. 1, 1917, Averaged 201 Eggs Each

Eggs for hatching \$2.00 per 15, \$3.50 per 30, \$5.00 per 50, \$9.00 per 100. Pedigreed eggs \$10.00 per 15.

O. F. MITTENDORFF, Box M, Lincoln, Ill.

APRIL AND MAY CHICKS

These are the months to get your chicks. Weather conditions are always favorable at this time. Can ship you promptly, strong, healthy S. C. White Leghorn baby chicks from our heavy laying stock, \$12 per hundred. Order today. Will ship when wanted.

GAULT EGG FARM

CHAMPAIGN,

STATION No. 7

ILLINOIS

"REGAL" MATINGS FOR 1917

For the season of 1917 my 24 Exhibition Matings are the finest I have ever offered. They are headed by winning males at the New York State Fair, Boston and Hagerstown, and contain a host of winning females. The Regal strain has reproduced its quality and established more successful breeders than any strain in existence.

If you are not getting good results in fertility or egg production, if your birds are weak in constitution and not as vigorous as you would like, why not start all over again with the pure Regal strain?

EXHIBITION MATINGS

Pens 1 to 20 (as they run) \$5 per 15; \$9 per 30; \$12 per 45; \$24 per 100. Pens 5 to 12 are special matings. Eggs selected from special pens only are \$10 per 15; \$18 per 30; \$25 per 45; \$50 per 100.

RECORD LAYING PENS (Dorcas Line)

Pens 21 to 30 are headed by males bred from females with high records. Some of these males also have exhibition records. The females in these ten pens are composed of yearlings with trap-nest records from 180 to 246 and pullets of the same breeding. From these pens eggs are \$5 per 15; \$15 per 50; \$27 per 100; \$50 per 200. Utility matings of vigorous surplus stock, \$5.50 per 50; \$10 per 100; \$45 per 500; \$85 per 1000.

1000—COCKS, HENS, COCKERELS AND PULLETS FOR SALE—1000. Special Value Pens—Male and four females \$25, \$35 and \$50 Fine Exhibition or Dorcas Cockerels \$10, \$15, \$20 and \$25. Pullets \$4, \$5, \$8, \$10. Stay White Utility Cockerels \$3 and \$5 each.

FREE—Send for 1917 Catalogue and Mating List. It gives full description of all my matings.

Send One Dime for the Regal White Wyandotte Book. The information it contains will be worth dollars to you.

JOHN S. MARTIN,

BOX 911

PORT DOVER, CANADA



SOUTHEASTERN NOTES and COMMENTS

By D. R. McBRAYER, Mooresboro, N. C.

FLOWERS, sunshine, rain, birds and baby chicks—April. April is one of the most welcome months in the whole year. Winter, long drawn out and with all its cold blasts, is ushered out by the balmy days of April. Out door life is again taken up and we again begin to feel like summer is coming. The past winter has been a rough and wet one and no doubt spring will be welcomed this year as not for years. April is also the busy month on the poultry farms and more chicks will be hatched during this month than any other in the year. All nature lends its assistance toward making the task as easy as possible. There is tender grass and worms and bugs for the little chicks and the warm weather too, so the little fellows just grow by themselves almost. Our advice is to get every chick that you possibly can during this month and next. Pullets hatched now will lay in the early fall and will consume less feed than the February and March hatched ones.

Chicks cost money and we should care for them in the very best manner possible. Feed them only the purest, sweetest feeds and give them clean, well ventilated quarters. Do not think because feed is high that any old thing will do for the chicks. Musty, sour or poor quality grains will just as surely cause trouble and loss among your chicks as you feed it to them. Another very important point in chick rearing is exercise. See that the little fellows take plenty of exercise every day. It not only makes strong, sturdy chicks but it keeps them from taking up bad habits, such as toe picking, etc., Exercise, sound sweet feed and fresh air are three things that must not be overlooked if we are to raise No. 1 chicks, and no other kind will pay.

Don't feed the breeders too much as the warm weather begins to come on. Especially corn will cause them to become fat and lazy and not only fewer eggs will be the result, but poor fertility also. Feed little at a time and often and make them scratch for every kernel of grain. Green feed should also be provided in large quantities, in fact, every bit they will eat. Gather the eggs often and do not keep over a week or two before setting. Not over one week if possible. The fresher, the better.

Recently we had the pleasure of visiting the poultry and egg farm of our good friend Mr. T. C. Hitchcock, who came to North Carolina some two or three years since and started egg farming with Single Comb White Leghorns. Mr. Hitchcock being a highly educated man, and a man of great business ability, has made a success of his new venture far beyond our most sanguine expectation. His farm is located outside the city limits of Shelby, N. C., a city of some

6,000 people. Mr. Hitchcock's farm has every convenience it seems that would make a one-man farm more efficient, and includes running water and many long breeding and laying houses so arranged as to be easily cleaned and to make the feeding and caring for the hens as easily and quickly done as possible. He also uses a truck for getting his feeds to his farm and for getting his eggs to

RAT & LICE PROOF COOP

Here's the coop you poultry keepers have prayed for. Saves your chicks from vermin and weather. The perfection.

APSA GALVANIZED STEEL BROOD COOP

at BARGAIN PRICES now cheaper than wooden ones. AM. POULTRY SERVICE ASS'N, Box 175 Kansas City, Mo.

Write for illustrated Folder FREE

SINGLE COMB RHODE ISLAND REDS AND INDIAN RUNNER DUCKS

My birds are bred for exhibition and utility qualities. The kind that lay through the high price season. I entered one hen at the Kentucky State Fair and won 3d in the hottest of competition. I entered one pen at the Great Armory Show at Louisville and won 4th pen in the biggest class of Reds ever caged there. **THEY WIN AND PAY.** You can't do better. Eggs from Pens Nos. 1 and 2: \$3 per 15; from Pens Nos. 3 and 4: \$2 per 15. Duck eggs and eggs from range flock \$1 per 13.

W. A. RAMSEY, Buechel, Kentucky

EGGS! EGGS!! EGGS!!!

White and Barred Rocks, Golden Wyandottes, Buff Orpingtons, S. C. R. I. Reds, S. C. Brown and White Leghorns, Anconas and Silver Hamburgs.

Write for prices, satisfaction guaranteed.

MOUNTAIN-VIEW POULTRY YARDS, Unionville, Virginia

S. C. WHITE LEGHORNS BUFF PLYMOUTH ROCKS

Eggs \$1.50 per setting, Chicks 15 cts. each. Eggs \$1.50 per setting, Chicks 20 cts. each.

For Sale Stock, Eggs and Day Old Chicks

PINEY HILL POULTRY YARDS, Jno. G. Fletcher, Prop., Member A. P. A. NORTH CHATTANOOGA, TENNESSEE

ROSE AND SINGLE COMB REDS BOURBON RED TURKEYS AND MAMMOTH BUFF GESE

OF THE BEST STRAINS

Winners at Richmond, Kentucky State Show, the past season. If you are interested in any of the above varieties write me at once. Satisfaction guaranteed. Eggs at reasonable prices.

MRS. R. C. COOMER, SPEEDWELL, KENTUCKY

The LIFE LINE IN THE CHICK LINE

Milkoline

The most wonderful feed-stuff preparation. Its basic element "Buttermilk" is not new—but long endorsed by Feed Experts, U. S. Gov., and State Authorities as greatest Poultry Feeding Ingredient known.

MILKOLINE is just as different from buttermilk as a diet for Poultry as Corn Bread is from Corn Meal as human diet. It's Condensed—One Gallon MILKOLINE equals 50 Gallons ordinary buttermilk. It's Medicated—Oil of Sassafras and other beneficial tonics add Health and Vim. It's Modified—making it keep indefinitely and perfectly Summer and Winter.

MILKOLINE WILL POSITIVELY PREVENT AND STOP **WHITE DIARRHOEA**

Stops dreadful disease which kills half chicks you hatch. Prevents awful bowel trouble which takes so much of Poultry Profits. The Bowels of little chicks are just as sensitive as those of the human infant. Modified sweet milk is the best known preventative for infants—and modified buttermilk—**MILKOLINE**—is the only absolutely safe preventative for chicks.

MILKOLINE ABSOLUTELY MAKES **CHICKS GROW FASTER**

You can feed it alone—but recommend that you mix little in all your chick feed. 20 to 25% of MILKOLINE will positively double feed in value—measured by increased vigor and health, or added growth. MILKOLINE will prove happiest feeding experience you ever had—one trial and you'll never be without again. Just as fine for growing and fattening broilers and old fowls. All the large Poultry Packers and Feeding Stations feed MILKOLINE extensively.

SEND NAME FOR DESCRIPTIVE BOOKLET—PRICES: 1 Gal. \$2; 5 Gal. \$1.50 per Gal.; 10 Gal. at \$1.25 per Gal.—All Prepaid.

Remember—you take no chance, you can't pay for MILKOLINE if you don't like it. You're missing something worth while—Write now.

MILKOLINE MFG. CO., 313 Meriden Creamery Bldg., KANSAS CITY, MO.

it's FREE

the express office, as he ships all his output to New York City, his old home, where he gets the highest market prices paid for large white eggs. Mr. Hitchcock's farm is a model one-man plant and he is bound to succeed even more in the years to come than in the few years past in which he has been engaged in the poultry business.

We will give you a \$50.00 drop-head sewing machine absolutely free. See special offer in this issue.

EGGS-EGGS-EGGS

S. C. White Leghorns, the South's Sweepstakes Champions

During past year at five large shows, including Augusta, Ga., Norfolk, Va., Wilson, N. C. and 5 different judges, they have won 17 out of a possible 22 blues, 13 Sweepstakes Cups, 9 over all other breeds, 3 medals including the A. P. A. medal. Sold out on stock.

Write for illustrated mating list and prices on eggs for hatching.

J. R. NINNISS,

Myers Park,

Charlotte, N. C.

See illustrations in this number.

Sow sunflower seed to provide shade for the hens and chicks if you haven't plenty of shade trees about the yards. You will also get considerable feed out of them too. The orchard is the best run for chicks and old fowls as well, but if you have only limited quarters and no trees, then provide shade as the warm weather comes on.

Now is the time to buy eggs for hatching for improving the flocks. Buy the very best eggs you can afford and improve your flock. Eggs from the best birds cost a great deal less than the birds themselves would cost you and the chances are that you will get a bird as good as the parent, in which instance you would be many times repaid for the outlay in time and money. Improve your flock now. It's the only way to keep at the front.

Be sure to look up the White Wyandotte advertisement of Mrs. Sabe Gary, Mayfield, Ky. Her birds have won at the best shows in the South and she is offering both stock and eggs at reasonable prices.

EVANS' WHITE ROCKS

Winners where shown. Stock for sale. Eggs in season

Chas. H. Evans, Henderson, Ky.

Kill Lice

NO HANDLING FOWLS.

R. T. Barr, Box 42, Quincy, Ill., is mailing Free an illustrated circular showing how to kill lice in a few hours. If interested in poultry for profit, write today for This Big 12 page, Money-Saving Folder.

GLORY-ANNA S. C. WHITE LEGHORNS



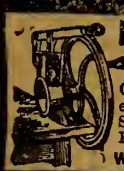
Eggs for hatching from pen headed by 1st Chicago cock Dec., 1915. \$5.00 per setting. Can spare only a limited number of eggs from this pen. Other pens described in my free mating list.

GLORY-ANNA POULTRY YARDS

GEO. E. SCHULZ, Prop.

549 S. 4th St., Louisville, Ky.

Crown Bone Cutter



EASIEST run, Fastest Cutter, Strong, Substantial build. Bone scrap means more eggs, higher percentage fertility. Own a "Crown" Cutter and have fresh bone for every feed. Dry Bone, Grain and Shell Mills. Hand and Power sizes. Free illus. catalogue. Est. 36 years. WILSON BROS., Dept. 16 Easton, Pa.

Best Made Lowest in Price

Barred Plymouth Rocks

THOMPSON'S STRAIN

Splendid winnings at Chicago, Indianapolis, Louisville, Memphis, Tenn., Kentucky State Fair, Bedford, Mitchell and other good shows. Matings finer than ever. Booking eggs now. Prices reasonable. Write now.

A. C. BROWN,

Holton, Ind.

BLUE GRASS

WHITE LEGHORN FARM

Winners at Madison Square Garden, Allentown, Memphis, Chattanooga, Kentucky State Fair, Richmond, O. F. F. A., etc. Eight exhibition pens. Some of these composed entirely of winners. Winners in every pen. After April first eggs at \$2.00 a setting of 15. \$3.00 per hundred. Address

DR. W. BARROW,

Lexington, Ky.



Champion White Wyandottes

Six grand pens now mated, including first prize pen at Georgia State Fair, 1916. Best eggs \$5 per 15. Eggs from other good matings \$1.50, \$2, \$3. Mat. ing list. White Dotte Poultry Yards, Frank Hamrick, Proprietor, Box B-144, Shelby, N. C.



On the greatest, most practical coal-burning brooder ever made. Self-feeding, self-regulating, everlasting. Broods 100 to 1000 chicks at a guaranteed cost of less than 6 cents a day. Used by over 10,000 big and little breeders. The

STANDARD COLONY BROODER

PATENTED

Will do anything any other brooder will do regardless of price, and do it better. You know what a good brooder ought to be and do. Just put that on paper and our dealer or ourselves will sign it and ship the brooder on thirty days' trial. If it doesn't come up to every claim we make, you get your money back without argument.

Beware of Imitations.

AGENTS WANTED

Some good territory still open. An attractive proposition for the right man or firm.

Book of Proof—Free. Write for it or ask your dealer.

THE BUCKEYE INCUBATOR CO.

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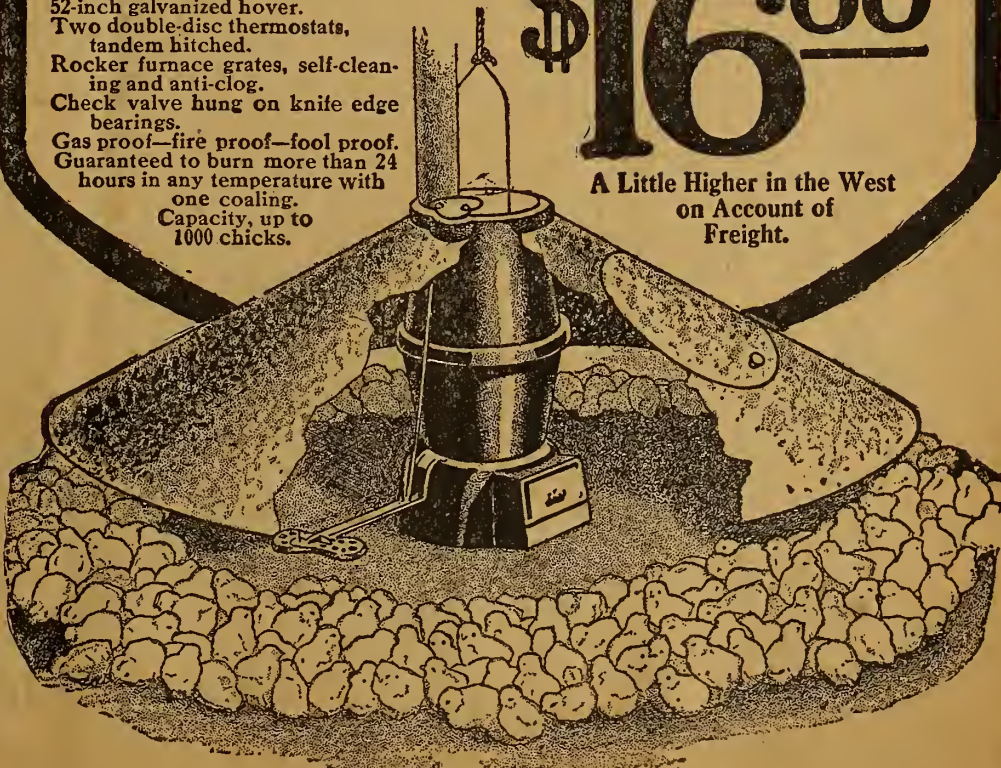
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SPECIFICATIONS.

Solid cast iron stove.
52-inch galvanized hover.
Two double-disc thermostats, tandem hitched.
Rocker furnace grates, self-cleaning and anti-clog.
Check valve hung on knife edge bearings.
Gas proof—fire proof—fool proof.
Guaranteed to burn more than 24 hours in any temperature with one coaling.
Capacity, up to 1000 chicks.

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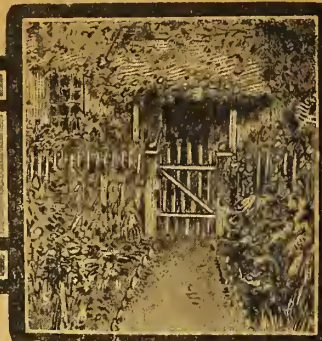
A Little Higher in the West on Account of Freight.



Just say you saw it in THE INDUSTRIOUS HEN.



FARM AND GARDEN



Under this department we aim to give our readers the best possible news matter pertaining to the farm, garden and other agricultural interests in a condensed form each month. Poultry raisers are usually engaged in other forms of agriculture and we hope they will profit from this department each month. We will be glad to have our readers and subscribers give their experiences here each month.

Selling Purebred Swine.

THE following are paragraphs from an address by F. B. Caldwell before the Kansas Swine Breeders Association:

"I believe the honest breeder tells the truth when he answers mail inquiries, but he often gets so circumscribed by the mists of egotism when he looks at the hogs he is describing that he fails to record the faults and defects and then is mad if the customer is not satisfied.

"I believe that the honest breeder intends to furnish correct pedigrees for the hogs which he sells, but often through the loss of a record book or the destruction of an earmark he is forced to rely entirely upon memory, and memory is not infallible.

"Perhaps one of the most annoying and the least justifiable habits of the breeder is the almost universal practice of delaying for weeks, and often months, in sending pedigrees to parties who have made purchases. The man who has bought his first purebred hog experiences a special thrill, and if he has the papers before the thrill wears off he can be depended upon to give them careful study. As members of the different breeders' associations, and as breeders, we should give a recorded pedigree with every hog we sell, for if a hog is not worth the additional cost he should be sent to the packer.

"Another thing we should watch is the guarantee. While we should be liberal in our guarantee, we should not say things that we do not expect to do. We should never do less than we guarantee."—Progressive Farmer.

Lime for Vegetables.

It is well known that such crops as beets, cabbage, celery, peppers, onions, lettuce and cantaloupes cannot do their best on a sour soil. More than four-fifths of the tilled soil in New Jersey is more or less sour. The amount of lime required per acre to neutralize this sourness, or acidity, may vary from a few hundred pounds to several tons, depending upon the amount of acidity in the soil and the kind of lime used.

Until recently the lime requirement of a soil could not be determined in a simple way, but now a small machine is available with which the amount of lime required by a field may be accurately determined by testing less than a cupful of soil. Each farm demonstrator in New Jersey has one of these testers in his office. A grower in an organized county should not plant the above mentioned vegetables on soil which he believes may be sour until he has had his farm demonstrator test his soil. A brief circular on "Lime and Its Use" has been published at the New Jersey Agricultural Experiment Station. It contains a discussion of the relative value of the different kinds of lime and their application. This circular may be obtained free from the experiment station or from any of the farm demonstrators.—Practical Farmer.

Which of These Are You,

(P. F. Trowbridge, Missouri Station.)

Farmer Jim sells his pigs. He buys his meat from the local grocer and pays the profits of the local live stock dealer, the commission man, the packer, the wholesaler, the transportation company and the local grocer. He also pays for the shrinkage occasioned by shipping his animals to market.

Farmer John kills and cures his own meat and pockets the profits.

Formula for dry-curing 1,000 pounds of pork:

Fine, clean salt, forty pounds.
White or brown sugar, ten pounds.
White or black pepper, four pounds.
Red pepper, one-half pound; mix thoroughly.

Each piece of meat should be rubbed with fine, clean salt and allowed to stand in a pile from six to twenty-four hours, so that the bloody serum can drain out.

Rub each piece of meat thoroughly with the dry-curing mixture. Be especially careful that the cure reaches the muscles around the ends of the bones of the hams and shoulders. Pile the meat carefully, with the skin down, in a cool, airy place. Avoid damp, musty cellars. The pile should not be more than three feet deep. Repeat the application in three days. The third application may be made in five or six days after the second. In general, allow the meat to cure a day and a half for each pound. After this treatment it should be thoroughly cured.

Wash the meat with warm water and remove any extra curing mixture. Wipe it dry and hang for smoking. Smoking may be done with hickory, oak, apple or any wood except that of the pine family. Twenty-five smudges will give a good, mild smoke. The amount of smoking, however, will depend upon the taste of the consumer. The meat should be carefully wrapped or sacked to keep out skippers.—Farm Progress.

Be sure to order your copy of "Practical Farming and Gardening" today. See special offer in this issue.

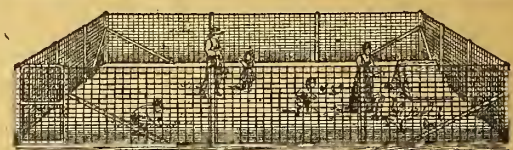
Marketing Creamery Butter.

The standardization of butter packages and the production of a more uniform quality of product are two requirements of butter markets to which creameries need to give consideration if they wish to improve conditions for the marketing of their butter, say specialists of the Office of Markets and Rural Organization of the United States Department of Agriculture in Department Bulletin 456, recently issued.

At certain seasons the market specialists found on the markets an increasing quantity of an inferior quality

FARM FENCE

16 3/4 CENTS A ROD for a 26-inch Hog Fence, 24 1/2 c. a rod for 47-in. 88 styles Farm, Poultry and Lawn Fences. Low prices Barbed Wire. **FACTORY TO USER DIRECT.** Sold on 30 days FREE TRIAL. Write for free catalog now. **INTERLOCKING FENCE CO.** Box 136 MORTON, ILLS.



MASON'S MOVABLE POULTRY YARDS

All Steel. Comes Complete—Fence, Posts, Gate—Everything ready to put in place. Easy to put up and take down. Any size wanted. **SOLD ON A SIXTY DAY'S FREE TRIAL.** The prettiest and most durable yard you can buy. Send for Catalog and Low, Direct Factory Prices. **MASON POULTRY FENCE CO., Box 43 LEESBURG, O.**

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Save Big Money on Poultry Fence! Get my big new Book Free! 150 Styles. Also Gates and Steel Posts. Direct from factory, freight prepaid. **SEND ME YOUR NAME, NOW!**

Brown Poultry Fence outlasts chicken netting 5 times, yet costs no more. Heavy **DOUBLE GALVANIZED** Wire close spaced. No top or bottom boards needed. Get Free Book and Sample to test.

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Complete Stock Write for Catalogue

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LOUISVILLE, KENTUCKY

Wire Netting
Automatic Feeders
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Poultry Cartons
Dressed Poultry
Cartons
Baby Chick Cartons
Vegetable Cartons
Garden Seed

of butter which is known as "under-grades." This inferior quality, it developed, is often due to the use of cream of poor quality and often sells at six to eight cents below the better grades.

In the shipment of butter to market, according to the bulletin, country creameries situated close together may often effect economies in transportation by co-operating in obtaining special scheduled "pick-up" refrigerator car service and by assembling local shipments into carload lots which may be shipped at lower freight costs.

Many country creameries, it was found, consigned their butter to wholesale butter receivers who often function as jobbers, while the tendency among the larger creameries and, to some extent, among smaller ones, is to distribute directly to the retailer. The grading and handling of bulk butter would be greatly facilitated, it is pointed out by the experts, if the consecutive numbers of the different churnings of a creamery were stamped on the containers.

It is pointed out by the specialists that the establishment of brands is essential for effective advertising. Salesmanship is also a vital factor in successful market distribution. It is highly important in marketing a branded product that a sanitary and attractive package be used and that a certain standard of quality in the product be maintained.—Progressive Farmer.

A Few Recent Testimonials for Egg-o-Hatch.

"I have been getting the best hatches this season I ever had, using Egg-o-hatch."—Wrodnard Egg Farm, Millersville, Md.

"As to how I like Egg-o-hatch, will say that it does more than I thought it would. I am well pleased with it. The chicks are fine and strong. Give me advice for using on turkey eggs."—F. E. Parrish, Seeley, Calif.

See Geo. H. Lee Co.'s advertisement in this issue.

EGGS

Prize Winning Strain Barred Rocks

At \$1.00, \$1.50, \$2.00 and \$3.00 for 15. Stock and fertility guaranteed. Write me your wants.

J. H. HERRON,

Nebo, Kentucky

ASK YOUR DEALER FOR MORISRITE DUSTER POWDER SPRAY LIQUID KILLS HEN LICE & VERMIN ON POULTRY AND STOCK
GUARANTEED EFFECTIVE OR MONEY BACK FROM DEALER.
MORISRITE MFG CO BLOOMFIELD, N.J., U.S.A.

If Your Dealer Can't Supply You
15 Oz. Can sent Parcel Post for 25c.



DROPSY TREATMENT

IT gives quick relief. Distressing symptoms rapidly disappear. Swelling and short breath soon gone. Never heard of anything its equal for dropsy. A trial treatment sent by mail absolutely FREE. Try it.

DR. THOMAS E. GREEN

Box S. Chatsworth, Ga.

SOUTHLAND STRAIN

S. C. Brown Leghorns

No Finer Stock to be Had

Eggs \$2 per Setting

All from stock yielding over 200 eggs per year

I. B. MERRIAM, Jr.,

Chattanooga,

Tenn.

No Stock for Sale

"AUTOCRAT" BARRED PLYMOUTH ROCKS

My birds have won many first prizes in the strongest of competition. I am ready to fill your egg orders and guarantee satisfaction. Get my Mating List.

C. W. STEPHENS,

GAUSE, TEXAS



O. K. Chick Fountain
1 Pt., 10c
1 Qt., 20c

Bigger Poultry Profits for You—

This catalogue of ours is brim-full of interest and of profit-suggestions for the poultry-raiser. Everyone of you should get it now—and read all about the careful designing and the high quality of material that enter into the making of—

Oakes Quality Products For the Poultry Raiser

You will see here three of them, made specially for the chicks—feeders and fountains that mean health and economy. Send for any of them or all of them and become familiar with Oakes Quality—and get the catalog so you can see the many other products that you really need in your business.

Oakes Manufacturing Co.

Makers of everything for the poultry raiser

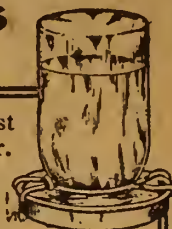
Dearborn St., Tipton, Ind.

Eastern Office, 303 Pearl St., New York



Chick Feed Troughs

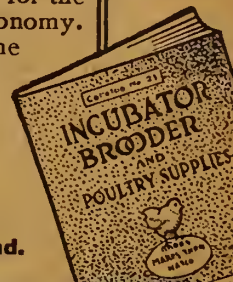
10-in. with grate..... 25c
20-in. 40c



Automatic Fountain and Chick Feeder Without Jar, 10c



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EVERY reader of the INDUSTRIOUS HEN must have a copy of PRACTICAL FARMING AND GARDENING and we have placed the price within the reach of every one of you. We have always striven to give our readers the greatest value possible for the least money. In this offer you can not say we have overlooked you in this respect. A copy of PRACTICAL FARMING AND GARDENING should be in every home because it will help you make greater profits and save you thousands of dollars every year.

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contains over 500 pages and hundreds of fine illustrations. It is a handsome cloth bound volume and contains valuable information which will be worth hundreds of dollars to you. The following subjects are fully covered:

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Spraying
Selecting and Breeding Farm Animals for Profit
Diseases of Farm Animals
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Making Poultry Pay
Handy Rules, Useful Information
Farm Cookery

These money saving methods in Farming, Gardening, Fruit Growing, also Horse, Cattle, Sheep, Hog and Poultry Raising, embracing all the important subjects of soil, fertility, crop culture, plant diseases, pruning, spraying, etc., together with advice on selecting and feeding Farm Animals for the greatest net profit, making poultry pay and hundreds of other priceless facts for the wide-awake farmer and housewife, make it the greatest agricultural publication on the market.

OUR OFFER TO YOU

PRACTICAL FARMING AND GARDENING, 500 pages, Price.....\$2.50
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Regular price for both.....\$3.00

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Enclose a dollar bill in your letter today before you forget it. This offer is open to new and old subscribers. Even if your subscription is paid up, take advantage of this special price and save \$2.00. Your subscription will be extended another year. If you will get three of your neighbors to subscribe for the HEN at 50 cents each, and send us \$1.50 we will send you a copy of PRACTICAL FARMING AND GARDENING free, as your premium. This offer is limited so get your order in early. If you do not think this book is worth \$2.50, the regular price, return same and we will refund every cent of your money. Address,

THE INDUSTRIOUS HEN LOUISVILLE, KENTUCKY





TURKEY & WATER FOWL DEPARTMENT

This department is conducted by Mrs. J. C. Shofner, Mulberry, Tenn., and any questions that you wish to ask will be answered through this department if addressed to Mrs. Shofner. If personal reply is wanted enclose a stamped envelope.

How to Raise Turkeys.

FOR those who are favorably situated for raising turkeys, a more profitable side line can hardly be found. Given plenty of range where the turkeys can find grasshoppers and other insects, green vegetation, the seeds of weeds and grasses, waste grain, acorns and nuts of various kinds, the cost of raising them is very small and the profits large. Grain and stock farms are particularly well adapted to turkey raising, and it is on such farms that most of the turkeys are found. Little has ever been done in the way of raising turkeys in confinement, and where it has been tried the results have been discouraging. Plenty of range is essential to success in turkey raising.

In selecting turkeys for breeding, the most important factors to be considered are vigor, size, shape, bone, early maturity and color of plumage. The body should be deep and wide, the back broad, and the breast round and full. The head should be of good size and of a clean, healthy appearance. A strong, well-made skeleton is shown by thick, sturdy shanks and straight, strong toes. It should be the aim of every turkey raiser to have a flock of purebred turkeys, even though they are sold at market prices. The male at the head of the flock should by all means be a purebred of the best type obtainable. The male is one-half the entire flock, and by continually selecting the best females of a similar type and mating these with a purebred male, one can soon have a flock of uniformly large, early-maturing, strong-boned, long and deep-bodied turkeys of the same color.

Fifteen turkey hens can safely be mated to a vigorous tom. If twenty-five or thirty hens are kept, two toms should not be allowed to run with them at the same time, but one should be confined one day and the other the next. When two toms are allowed to run together during the mating season they fight badly and the stronger does practically all of the mating.

Turkey hens are wont to "steal" their nests in hidden places, such as a patch of weeds, tall grass or thick brush and often wander a half mile or more from home before they find locations that suit them. To find these stolen nests often proves to be a long and tedious task, the usual method being to follow each turkey hen as she separates from the flock and starts toward her nest, care being taken that she does not know she is being followed. A much easier and quicker method than this is to confine the hens early some morning soon after they have come down from roost and let them out in the afternoon. Those

that are laying will then head for their nests in order to lay the eggs they have been holding.

If many turkeys are kept, the use of a breeding pen will be found a great convenience. This pen should cover a sufficient area to allow the turkeys some exercise, an acre for fifteen birds being none too large. Nests should be scattered about the pen, those which turkey hens take to most readily being barrels turned on their sides and nests shaped in them with straw.

Turkey hens, chicken hens and incubators are commonly used to incubate turkey eggs. During the early part of the laying season it often happens that one has on hand a number of eggs that should be incubated before any of the turkey hens are

through laying their first litter and become "broody." In such case, and also when it is desired that the turkey hens lay more than one litter, some of the eggs have to be incubated under chicken hens or in an incubator. About a week before the poults are due to hatch, turkey hens enough should be allowed to sit to take all the poults hatched. They can be given a few eggs from the incubator or from under the chicken hens and allowed to hatch the poults themselves, or at night a newly-hatched poult can be slipped under each turkey hen that is to be given a brood of poults and by morning she will be glad to take them.

MAMMOTH BRONZE TURKEY EGGS

FOR SALE

Do you want stock from the largest and finest in the South, from prize winners at Madison Square Garden, World's Fair, Nashville and many other great shows? Two flocks, unrelated, to select from. Also Barred Rocks, stock and eggs. Write at once to

MRS. J. C. SHOFNER
Route 1
Mulberry, Tenn.



There's Big Money-Health and Happiness In the Poultry Business — It's a Gold Mine if You Know How

BUT DON'T GO AT IT BLIND

Our simple, practical Correspondence Course makes you an Expert — You'll know how to make big success. Cost small — Start right. Write for Catalog. It's American School of Poultry Husbandry Box 412 Leavenworth, Kans. Prof. Quisenberry, the Great Poultry Expert, Dean Faculty.

FREE

EGG-O-HATCH

Trade Mark Reg. U. S. Pat. Off. Patent Applied For

Makes Better Hatches; Stronger Chicks

EGG-O-HATCH is a dry powder. Mixed with water it makes a solution which is applied to eggs during incubation; it soaks into the shell and supplies oxygen for the growing chick; absorbs the carbonic acid gas given off by the chick; further, by its action on the animal matter of the shell, it rots or disintegrates the shell, making it more porous and brittle.

Up to the hatching point, a chick breathes through innumerable blood vessels located in the inner membrane just within the shell. Close the pores of the shell and the chick quickly dies. Partially close them and the chick is weakened just the same as if partially strangled. If, at the same time, the shell is drying out and becoming harder, tougher and non-porous, a point is reached where the chick is too weak to break out of the tough shell.

EGG-O-HATCH changes all this by keeping the shell pores open; making brittle the shell; supplying the chick with extra oxygen and quickly absorbing and getting rid of the carbon dioxide.

EGG-O-HATCH is easily and quickly applied to eggs by spraying or dipping. It is used only three times during the 21 days. Our hatches have shown from 10 to 40 per cent better results where Egg-O-Hatch was used, and all were better, stronger chicks. Fifty test hatches showed an average of 96 per cent for eggs treated with Egg-O-Hatch, and 81 per cent for eggs not treated, **RIGHT IN THE SAME MACHINE.** Egg-O-Hatch is easily proven. Use it on half the eggs in an incubator.

ONE SIZE ONLY, 50 cents postpaid, or at dealers. Sufficient for 600 eggs through one hatch or 6 hatches of 100 eggs; 50-egg sample 10 cents postpaid. Our No. 19 atomizer, all glass and rubber, is handiest and best way to apply Egg-O-Hatch. **PRICE 75 CENTS.**

Send for New Book "ALL ABOUT EGGS"

Or, better still, send 5 cents in stamps for our Complete Poultry Library (5 Books) postpaid. It is a liberal education in poultry work, showing how to keep hens profitable every month in the year; how to make better hatches and raise more chicks; how to get the best market on eggs; instructions for housing, feeding, preventing and curing disease, etc. Well worth \$10.00 to any poultry raiser.

Learn the "LEE WAY"

The regular, systematic way by which you can make more money every month by use of Lee's Egg Maker daily; Germozone twice a week; Lee's Lice Killer once a month; Egg-O-Hatch for the incubator work; Egg-O-Latum for keeping the cheap spring and summer eggs for the winter market. Full information, Poultry Library, etc., postpaid for 5 cents in stamps.

GEO. H. LEE COMPANY, 319 Lee Building, Omaha, Neb.

"Egg-O-Hatch is certainly a wonder." Charles E. Heckle, Memphis, Tenn.
"Am very well pleased with Egg-O-Hatch." Daisy S. Ineson, Ansonia, Conn.



SOUTHWESTERN NOTES AND COMMENTS

By MRS. J. F. VERMILLION, Rusk, Texas.

TEXAS has lost another valuable poultry journal. I understand the Southern Poultryman, formerly published by R. McReynolds at Dallas, has suspended publication. Mr. McReynolds personally is a fine gentleman but his editorial policy was a little strenuous, and while we all regret the misfortune that made it necessary to discontinue the Southern Poultryman, many of us cannot but feel that the decided prejudices voiced by its editor was largely responsible for the falling off of advertising custom, and hence the failure.

We are glad indeed to note that our good friend, Mr. D. G. Coffman, of Rhode Island Red fame, has been restored to his accustomed good health after two or three years of ill health, and is again physically able to care for his enormous Rhode Island Red business.

Texas is booming with poultry specialty clubs. The Orpingtons, Leghorns and White Plymouth Rocks are newly organized and we hope for them all success. It is an undeniable fact that a good live club is a great advantage to any breed. Our own Texas Rhode Island Red Club is in a flourishing condition. Like many other organizations, we need to do a little house cleaning. A club of this kind should stand for something more than merely offering ribbons and specials at poultry shows. The enforcement of all our laws and the prohibition of any and all methods, either in manner of advertising or dealings with the public that are not of the very highest and cleanest nature should be emphasized until membership in the club would of itself be a guarantee of character.

The March Industrious Hen has reached us. It is as usual full of good reading. Mrs. Dunton writes of a wonderful egg record made by a pullet of the mongrel class. The record was undeniably good except that her pullet become broody entirely too soon after starting to lay. A hen more than two years old will often become broody that soon but a pullet should lay much longer. But the dear lady must not "knock" on the thoroughbred hen. She even says that the other mongrel pullet that had not laid a single egg at the time she wrote was a finer shaped, prettier bird than the other that laid twenty-four eggs in the twenty-nine days, thus leaving us to interpret her as believing that a show bird is useful only to look at. Our own experience has been that the most perfectly formed, or in other words, our show pullets, have been our very best layers and this season we have had the same experience—our very best winners, both hens and pullets, have laid continuously throughout the winter.

Mr. W. R. Beattie, of St. Louis, agricultural and industrial commissioner of the Cotton Belt Railroad, paid us a visit this week and arranged with us to supply a pen of our Reds to place in his demonstration car. He has the promise of a pen of Barred Rocks from Mr. R. O. Murray, of Lufkin, Texas, a pen of White Leghorns from Cotton Belt demonstration farm, Morrill, Texas, and a pen of Golden Wyandottes from Mr. DeWitt, of Hillsboro, Texas. All these points being on the Cotton Belt route, he wishes to demonstrate the quality of poultry that can be produced along its line. This demonstration car will also carry a dairy exhibit and will tour most of Texas territory.

We expected to be able to give the Fort Worth show awards in this month's notes and asked Mr. Burton, the superintendent of the show, to please give us the information at the earliest possible moment, but we have failed to hear from him.

Printed Stationery.

A lot of trouble would be avoided if poultry breeders would use printed stationery, that is stationery on which their name and address and varieties was printed. This would make it possible to avoid a lot of mistakes. Many

forget to sign their names or write them so carelessly they cannot be read; others forget to give the name of the town or city, and it usually happens in such cases that the postmark is blurred so that it can't be read. It looks more business-like to have such stationery and it isn't expensive.—Poultry Item.

PIGEONS PAY
Better Than Chickens
Young pigeons (squabs) bring 40 to 50c each when 3 to 4 weeks old. Big demand in city markets. Each pair of pigeons easily clear \$4 per year. Always penned up. Very little space and money needed to start. Free Book explains all. MAJESTIC SQUAB CO., Dept. 57 ADEL, IOWA.

FREE BOOK

Barrett's Blue Ribbon and Imported Strain S. C. Anconas

With a trapnest record, bred to lay eggs and baby chicks. Also young stock from registered Rufus Red Belgian Hares. Write for mating list.

Barrett's Ancona Farm Morristown, Tenn.

WYANDOTTES
"DIXIEDOTTE STRAIN"
Southern Vigor
MAKES
National Winners

Prepare to win next fall and get eggs next winter by hatching Dixie-dotte eggs NOW. Ideal climatic conditions insure hatchable eggs with a kicking chicken. Indianapolis, Chicago and other big shows label them CHAMPIONS. My customers are winning everywhere. Best eggs \$5 per 15, \$24 per 100, includes all special matings. Utility \$2 per 15, \$10 per 100. Catalogue and mating list on request. Airedale puppies and grown stock for sale.

CARRINGTON JONES, Box 173, Buntyn, Tenn.

CALHOUN'S S. C. WHITE LEGHORNS

Beauty, Vitality, Winter Eggs. Have about all the April Hatching Egg and Chick orders we can handle, but can still fill a few if they reach us at once. May orders solicited. Eggs, Chicks and Choice Breeders at special prices after May first.

WOODLAND POULTRY FARM, Jno. R. Calhoun, Prop.

MORRISTOWN, TENNESSEE

S. C. WHITE and BROWN LEGHORNS, BARRED PLYMOUTH ROCKS

My pens are now mated and I can furnish you eggs from the above varieties at \$1.50 per 15 and \$6.00 per 100. Satisfaction guaranteed or money refunded. My matings are the best I have ever owned and I am anxious to show you what quality I can give you at these reasonable prices.

POMONA POULTRY FARM,

Emmett McGinnis, Prop.,

Bowling Green, Kentucky

Koons Quality Barred Rocks

Won at the following shows this season: Indianapolis, Louisville, Kentucky State Fair and Charleston. All in strong competition. My pens are now mated and I can furnish you eggs at \$3.00 and \$5.00 per setting. Eggs from flock \$10.00 per 100. Satisfaction guaranteed or money refunded.

CHAS. KOONS.

CHARLESTOWN, INDIANA

English S. C. White Leghorns

Nothing but the very best. Bred-to-lay kind. Our breeding pens are headed by males from hens that have an egg record of from 264 to 286 their pullet year. If you want high-class utility birds from a flock that has plenty of range and from a farm that is free from disease and where modern methods are used, get your eggs from us. WE guarantee fertility. Get our prices.

KINDALE POULTRY & PRODUCE FARM,

MRS. DELLARD M. KINKADE, Prop.

UPTON, KENTUCKY

HARMON'S S. C. WHITE LEGHORNS

We are prepared to furnish Leghorns as good as we ever produced at the same prices as last season. Taking time by the forelock, we placed our orders for feed early in the season in sufficient quantities to maintain the present flock and also the coming 1917 flock, which is yet unhatched. I publish no records that are not officially made—either egg laying or show records. Every bird on my farm having a record has been reared by me and not purchased elsewhere. There is a difference.

PRICES—Yard No. 1, containing my official over 200-egg hens, a limited number of eggs, \$5.00 per setting straight. Yards Nos. 2 and 3, special exhibition matings, \$5.00 per setting; three for \$10.00. Yards Nos. 4 and 5, \$3.00 per setting; three settings for \$8.00. Regular matings \$1.50 per setting; three for \$4.00; \$7.00 per hundred; 500 lots \$30.00; 1,000, \$50.00. We guarantee satisfaction and 90 per cent fertility. Stock a matter of correspondence. Order direct from this ad, or write me. You will have no regrets in the future if you purchase from us.

B. R. HARMON,

400 1/2 South St.

Room No. 1, German American Bank,

Springfield, Missouri

Just say you saw it in THE INDUSTRIOUS HEN.

(Continued from page 170.)

Owen's Farm and Farrar Reds; Dixie strain White Wyandottes; Crystal White Orpingtons. Eggs and young stock for sale. W. H. Harrison, Cottondale, Fla. 3-5t

Single Comb Rhode Island Red pullets and cockerels, dark red, of exceptionally high quality. Ten years line bred. Eggs for hatching from three high class pens. Address Dr. J. T. Herron & Son, 429 E. Main street, Jackson, Tenn. 2-5t

"Hiawatha" Single Comb Rhode Island Reds. Sweepstakes cup winners. Fine color and type. Eggs for hatching \$2.00 per 15. Geo. C. Cannady, Mt. Carmel, Ill. 2-3t

RHODE ISLAND WHITES

The greatest Rhode Island White farm. Rose and Single Comb. Eggs \$1.25 per 15 and up. Also baby chicks. Catalogue free. Henry Eichelmann, Waterloo, Ill. 3-5t

BLACK SPANISH

For Sale—The famous White Faced Black Spanish stock. For sale—eggs for hatching. Edward Schuck, Sunman, Ind. 4-1t

SUSSEX

Red Sussex eggs for hatching. Fine pen of winners. Write for particulars. Sidney Fulkerson, Olney, Ill. 4-1t

PIGEONS

Hevenor's Belgian Carneaux breed fast- est. Raise largest squabs. My book tells everything. Hevenor Pigeon Farms, Box 13, Tonawanda, N. Y. 4-1t

\$-5-\$-5 in Pigeons! Start raising squabs for market or breeding purposes. Make big profits with our Jumbo pigeons. We teach you. Large, free, illustrated instructive circulars. Providence Squab Co., Providence, R. I. 3-1t

I offer guaranteed mated Homers in any quantity at \$1.00 per pair. Beautiful White Homers \$1.50 pair. Squab companies challenged to produce better stock at twice this price. Get my prices on Runt, Carneaux, Maltese Hens and save dollars. Squab Manual 25 cents. Chas. O. Gilbert, 222 Callowhill street, Philadelphia, Pa. 4-1t

TURKEYS

Bronze 55-pound strain, \$8.00 up. Eggs 50 cents each. Duroc-Jersey hogs. Both winners. Lorenz Company, Perryville, Mo. 3-3t

Bourbon turkeys; 20 fine young toms. Also hatching eggs in season. E. F. Trimble, Benton, Ky. 2-8t

Turkeys—All varieties, farm reared, large, healthy, vigorous birds. Winners wherever shown. Buy your breeding toms now. U. R. Fishel, Box Q, Hope, Ind. 12-5t

For Sale—Mammoth Bronze turkey eggs from handsome large stock at \$1.00 per dozen. Address Mrs. R. L. Motlow, Mulberry, Tenn. 4-2t

Half wild turkeys, hardy as an oak. Few eggs to spare. J. H. Vaughan, State College, N. M. 3-3t

Famous Eagle Farm Bourbon Red tur- key eggs, \$3.00 per twelve (12), postpaid. Eagle Farm, Sparta, Ky. 4-2t

Mammoth Bronze turkey eggs for sale at \$1.00 per dozen. See display ad. in turkey department in this issue. Mrs. J. C. Shofner, R. 1, Mulberry, Tenn. 4-2t

Eggs for sale. Guaranteed fresh. Mammoth Bronze, also White Holland turkeys; Barred Plymouth Rocks, Imperial Ringlett strain; White Wyandottes of noted laying strains. Satisfaction to all our customers is our watchword. Circular free. E. F. Sommers, Somerset, Va. 3-2t

WYANDOTTES

Rose Comb Rhode Island Whites. Every day, fall and winter layers. Exhibition matings. Eggs \$3.00 per 15. White Hill Farm, Cleveland, Tenn. 4-1t

Silver Laced Wyandottes. Exclusive stock at all times. Eggs and baby chicks in season. Mrs. Sarah Paul, Lomax, Ill. 1-3t

Silver Laced Wyandotte eggs from two choice pens, \$1.50 per setting of 15. Mrs. Susie Leek, Route No. 2, Allendale, Ill. (?)

Silver Laced Wyandotte Cockerels— Fine birds. Satisfaction guaranteed. Eggs in season. The Wyandotte Poultry farm, C. W. Hunter, proprietor, R. No. 6, Box 111, Mt. Vernon, Ohio. 12-4t

Odum's White Wyandottes. I don't sell photographs in water colors or oil paintings, but I will sell you eggs that will produce high class exhibition and breeding birds. Write me for quality and price. J. A. Odum, Knoxville, Tenn. (?)

Silver Laced Wyandottes. I have a few utility cockerels for sale. Eggs in season, \$1.25 per 15; \$1.50 by parcel post. From farm raised utility flock. C. E. Courter, Allendale, Ill., R. F. D. No. 1. 1-4t

Columbian Wyandottes. Prize winning Columbian Wyandottes. Choice cocks and cockerels for sale. Eggs in season. Miss M. Doll, Frankfort and Ewing Aves., Louisville, Ky. 2-3t

"Duston" White Wyandottes. Louisville, first cock, first cockerel, second pullet and third pen. Penned eggs \$4.00 and \$5.00. Utility \$1.50 set; \$6.00, 100. Mrs. Tom H. Hayden, Owensboro, Ky., R. No. 6. 2-5t

"Duston" White Wyandottes. Louisville, first cock, first cockerel, second pullet and third pen. Penned eggs \$3.00 and \$5.00; utility, \$1.50 set; \$8.00, 100. Mrs. Tom H. Hayden, Owensboro, Ky., R. F. D. No. 6. 2-5t

White Wyandottes, Rose Comb. Eggs from large blocky birds. Best laying strain. Mated with show quality cockerels, \$1.00 per 15. \$2.50 per 50. \$5.00 per 100. Jno. J. Mast, Arthur, Ill. 3-5t

Regal White Wyandottes (Dorcas line). Eggs from record laying pens \$2.00 to \$5.00 per 15. Utility \$1.00. Mrs. R. T. Harris, R. 3, Utica, Ky. 4-1t

Eggs for sale from a great egg produc- ing strain Rose Comb White Wyandottes, Ringlet Barred Rocks, fine layers. White Holland turkeys (two-year-old hens). All purebred. Satisfaction guaranteed. Circular free. Mrs. M. F. Gooch, Somerset, Va. 4-1t

Rose Comb White Wyandottes. Heavy layers. Eggs, 15, \$1.50; \$3.50 for 50. Prize pens, 15, \$2.50; \$6.00 per 50. Mrs. E. M. Holmes, Holly Ridge, Miss. 4-1t

Partridge Wyandottes. Duff's Sensation strain. Some fine exhibition and breeding cocks and cockerels at the right price. A. C. Duff, South Solon, Ohio. 4-1t

White Wyandotte eggs \$1.50 per 15. From purebred, vigorous stock. Fertility guaranteed. C. M. Perkins, Hewlett, Va. 4-1t

Rosedale White Wyandottes. Eggs from winners and layers. Send for mating list. Rosedale Farm, R. 10, Paw Creek, N. C. 4-1t

Eggs from 50-pound tom sweepstakes winner, \$4.00 per 12. White and Silver Wyandottes, \$2.00 and \$3.00 per setting. Mrs. Lee Chapman, R. No. 10, Mayfield, Ky. 2-5t

MISCELLANEOUS

Eggs from White Holland sweepstake winner, \$4.00 per 12. White Wyandottes, prize winners, \$3.00 per setting. Mrs. Lee Chapman, Mayfield, Ky., R. F. D. No. 10. 3-4t

All varieties poultry, turkeys, geese, ducks—best quality; lowest prices. Satisfaction guaranteed. Hope Poultry Breeders Association, Hope, Ind., R. F. D. No. 8. 3-3t

S. C. Black Minorca eggs, \$1.50 per 15. Bardstown Minorca Yards, H. B. Chambers, Minorca Specialist, Bardstown, Ky. 3-3t

Agents! 100 per cent profit guaranteed selling sprayers, gasoline pumps and auto-washers. Write Rusler Company, Johnstown, Ohio. 3-2t

Ninety varieties poultry, eggs, pigeons, hares, dogs, ferrets, guinea pigs, etc. Descriptive 60-page book 10 cents. J. A. Bergey, Telford, Penn. 3-3t

Baby chicks, eight varieties. Raised on separate farms. Custom hatching. Catalogue free. R. W. Foster, Richmond, Ky. 1-4t

Poultrymen's Printing Prepaid—Note- heads, envelopes, cards, tags, labels, 100 either, 55c; 250, 95c; 500, \$1.35; 1,000, \$2.25. Postcards, catalogues, circulars,

linen letterheads, everything. Finest cuts furnished. Stamp brings elegant samples. Model Printing Company, Manchester, Iowa. 12-6t

Tested and proven. Mitchell's improved King cotton is double early, prolific, productive. 100-pound sack seed, sealed, guaranteed, \$6.50, cash with order. Sugar Loaf Cotton Farm, Youngsville, N. C. 2-4t

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Won sweeping victory at Tampa, Florida, Feb., 1917. Three pens mated. Headed by Stylish Model, Grandmother and King George 2nd. All pens \$5 per setting. Each bird in all yards a winner. Range, containing all my Florida winners (none scoring less than 95 points) \$3 per setting. All great layers. Limited number of cockerels, \$7 to \$10. Trios \$20 to \$25. Shipped on approval. My Motto is Best and Pleased Customers. Mating list free. Write **MRS. SABE GARY, Mayfield, Kentucky**

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At the big Memphis Tri-State Fair, 1916, our birds won 1st young pen; 4th old pen; 4th cock and 4th pullet in competition with the largest breeders in the country. Large, strong baby chicks 25c and 50c each from high class show birds that are trap-nested layers. Eggs and chicks half price after May 1st. Satisfaction guaranteed or money refunded. Address

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MRS. IRA JOHNSON, :- :- Texarkana, Arkansas.

Vermillion's S. C. Rhode Island Reds

Have demonstrated their quality beyond question by their show record in the very largest shows in this and other states, both in our hands and for our customers. We are constantly receiving letters telling us of great winnings, great egg records or the thrift and vigor of young chicks hatched from eggs purchased from us this season. Our motto is: "A customer obtained is a customer retained." After April 15th our eggs will be reduced to following prices: \$4.00, \$2.00 and \$1.25 per fifteen and after May 1st we will have some splendid breeders for sale.

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S. C. White Leghorn Baby Chicks

at \$6.75 per 100 for May and June delivery, from Sanger's Famous Egg Laying S. C. White Leghorns. Safe arrival guaranteed. Order at once and save delay. Also have your orders booked for fall delivery of cockerels and pullets, also eggs for hatching.

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You Need This Band for Your Birds Just as Much as You Need Feed for them. You need them either to tell their age, or to keep your records right if you are trapnesting. The Bourne big-number bands are recommended for this as you do not have to catch the bird in order to read the number. Black numbers from 1 to 800 on white background. Numbers from 1 to 300 on red, yellow, cerise, green, pink, blue backgrounds. Sizes for Mediterraneans, Americans and Asiatics, also pigeons. Send for free sample and catalogue. We can furnish bands with the year "1915" and "1916" on them in order to tell the age of the bird. Send for sample and price list now.

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My S. C. White Leghorns of the famous Lake-wood strain. Will furnish some fine eggs for hatching from my excellent prize winning pullets, at the following very low prices: \$1.00 for 15; \$2.75 for 50; \$5.00 for 100. Fine cockerels for sale.

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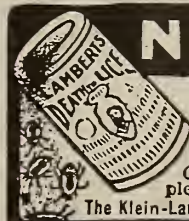
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After May 1st we will sell eggs and day-old chicks at reduced prices. May hatched chicks will lay in October or November, the June hatch in December and will make just as good winter layers as earlier hatched chicks.

We can furnish chicks from 200 to 230 egg stock early in May; 25 chicks \$5.50, 50 for \$10.50, 100 for \$20.00, 1,000 for \$175.00. From 230 to 264 egg stock, 25 chicks \$8.50, 50 for \$16.00, 100 for \$30.00, 1,000 for \$250.00. We have all the orders for utility chicks that we can fill early in May, but can furnish any number the latter part of May or early in June at 25

for \$3.50, 50 for \$6.50, 100 for \$12.00, 1,000 for \$100.00. Safe arrival guaranteed.

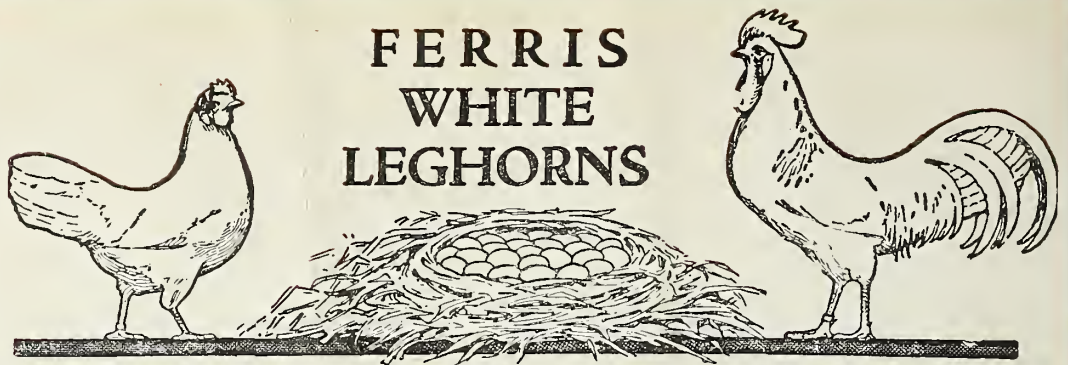
We can also fill a few more orders during April. See catalog for April prices. We can fill all egg orders promptly, and we guarantee fertility and safe arrival. 230 to 264 egg stock, 15 eggs April \$5.00, May \$3.50; 100 eggs April \$25.00, May \$15.00; 1,000 eggs April \$200.00, May \$125.00. 200 to 230 egg stock, 15 eggs April \$2.75, May \$2.00; 100 eggs April \$15.00, May \$10.00; 1,000 eggs April \$125.00, May \$90.00. Utility matings, 15 eggs April \$1.50, May \$1.25; 100 eggs April \$7.50, May \$6.00; 1,000 eggs April \$70.00, May \$50.00.

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One of the most satisfactory ways to start with Ferris Leghorns is to buy a pen of eight week old chicks. At this age the pullets weigh about $\frac{3}{4}$ lb. and the cockerels about 1 lb. The pullets can easily be distinguished from the cockerels and the trouble and loss that sometimes occur in hatching and raising chicks is avoided, for at this age the birds are ready to go on the roosts, no longer require such close attention and are practically out of danger if given proper feed, a good coop and reasonably good care. We guarantee safe arrival anywhere. We can ship any time you want them after May 20th. From 230 to 264 egg stock, 10 pullets and 1 cockerel \$30.00, 100 pullets \$200.00. From 200 to 230 egg stock, 10 pullets and 1 cockerel \$20.00, 100 pullets \$150.00. From good stock without records, 10 pullets and cockerel \$13.00, 100 pullets \$100.00.

THIS FREE CATALOG tells all about Ferris White Leghorns and how to breed them for egg production; describes the eggs, chicks and eight week old stock priced above, and the liberal guarantee under which we sell them. Write for it—a post card will do—and let us show you why you should breed Ferris trap-nested laying stock.

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